

# Introduction to Healthcare Systems Engineering I-PrACTISE Pre-conference Workshop

## Workshop Overview

Many healthcare organizations are using systems engineering and human factors (SE/HF) methods to improve process performance, reduce errors, improve outcomes, and reduce work burden. This interactive workshop provides a general introduction to the field of systems engineering and its application to healthcare. Topics to be covered include a broad overview of systems engineering and human factors methods, typical applications in healthcare, and their various uses for understanding, designing, modeling, and optimizing processes and problems of interest. Hands-on group exercises will provide participants and opportunity to apply key learnings and methods, including human factors, engineering design, and model-based analysis.

## Learning Objectives

At the completion of this workshop, participants will be able to:

- Describe common types of systems engineering methods and how they can be applied to important healthcare problems
- Identify useful opportunities to apply systems engineering, human factors, and design methods in their healthcare organizations
- Conduct a systems engineering or human factors analysis to improve the design, performance, and efficiency of some problems of interest

## About the Faculty

James Benneyan, PhD is a national leader and innovator in healthcare systems engineering. He is executive director and senior scientist of the Healthcare Systems Engineering Institute at Northeastern University, including three federally-awarded centers by the NSF, CMS, and VA and three undergraduate through doctoral traineeships. He has received 12 research, teaching, and service awards, is an elected fellow of the Institute of Industrial Engineers, and previously was senior systems engineer at Harvard Community Health Plan, an industrial engineer at IBM, and faculty for the Institute for Healthcare Improvement.



June 2, 2019

1:00 p.m. - 4:30 p.m.

Inter-disciplinary Science and Engineering Complex,  
Northeastern University  
805 Columbus Ave, Boston, MA 02120

## Registration

Early Registration: \$75

On Site: \$95

Click [here](#) to register.

